

Appl. No. 09/377,611
Amtd. dated December 16, 2003
Reply to Office action of July 16, 2003

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- D/
1. (Currently Amended): A method for replicating changes in a master source file set on a destination file system located on a host, the destination file system for access by a web server, the method comprising the steps of:
 - (a) identifying changes in the master source file set on a master computer;
 - (b) storing the identified changes in a modification list;
 - (c) transmitting the modification list to an agent ~~a least one web server~~ in communication with at least one web server ~~an agent~~, the agent having access to the destination file system, the destination file system, the agent and the at least one web server running on the same host, thereby notifying the at least one web server that the master source file set has changed;
 - (d) transmitting a signal to the agent separate from the modification list, the signal indicating that the agent is permitted to install the changes in the at least one web server; and
 - (e) ~~receiving a response from the at least one web server agent~~ after step (d) indicating that the destination file system installed the identified changes.
 2. (Currently Amended): The method of claim 1 further comprising the step of:
 - (ef) transmitting a copy of a changed file of the master source file set to the agent.
 3. (Canceled)
 4. (Previously presented): The method of claim 1 wherein the identifying step comprises the steps of:
 - inspecting a current version of the master source file set; and
 - comparing the current version to a previous version of the master source file set on the master computer.
 5. (Previously presented): The method of claim 1 wherein the identifying step comprises the steps of:

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D/ installing a device driver to perform file operations and monitor changes to the master source file set; and

recording, by the device driver, changes to the master source file set.

6. (Previously presented): The method of claim 1 wherein the identifying step comprises:
receiving a manifest describing changes to the master source file set.
7. (Previously presented): The method of claim 4 wherein the comparing step comprises
comparing a file attribute of a file of the current version of the master source file set to a file
attribute of a file of the previous version of the master source file set.
8. (Previously presented): The method of claim 7 wherein the file attribute comprises at least
one attribute chose from the group consisting of file size, file permissions, file ownership,
modification time, and a hash of the file.
9. (Previously presented): The method of claim 1, further comprising before the identifying
step, the step of calling a script of user configurable instructions by calling an operating system
function.
10. (Previously presented): The method of claim 1, further comprising, before the transmitting
step, the step of calling a script of user configurable instructions by calling an operation system
function.
11. (Previously presented): The method of claim 1, further comprising, after the transmitting
step, the step of calling a script of user configurable instructions by calling an operating system
function.
12. (Original): The method of claim 11, further comprising the step of determining whether
the transmitting step has successfully completed, and wherein the calling step occurs after the
determining step.
13. (Original): The method of claim 11, wherein the step of calling a script occurs after the
success of the transmission is known.

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14. (Canceled)

15. (Previously presented): The method of claim 1 wherein the transmitting step comprises multicasting.

16-18 (Canceled)

19. (Currently Amended): A web service system, comprising:

a manager for managing the web service system;
a host comprising a web server for receiving web page requests and an agent in communication with the manager and the web server; and
a content distributor in communication with the host and the manager, the content distributor providing notification of changes to a master source file set on a master computer to the host, the content distributor transmitting a signal to the agent separate from the notification of changes, the signal indicating that the agent is permitted to install the changes in the web server, and for the content distributor receiving a response after the signal is sent, the response indicating that the identified changes are installed.

20. (Previously presented): The system of claim 19, further comprising a traffic manager in communication with the manager, the traffic manager directing web page requests to the web server.

21. (Previously Presented): The system of claim 19, wherein the content distributor comprises:

- (a) an identification module for identifying changes in the master source file set on a master computer;
- (b) a modification list for storing identified changes to the master source file set;
- (c) a transmitter for transmitting the modification list to the agent, the agent having access to a destination file system; and
- (d) a receiver for receiving a response indicating that the destination file system received the identified changes.

22. (Previously presented): The system of claim 21, further comprising a transmitter for transmitting a copy of a changed file of the master source file set to the agent.

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D/ 23. (Previously presented): The system of claim 21, wherein the agent comprises an installer for installing a copy of a changed file of the master source file set on the destination file system.

24. (Currently Amended): A content distributor in communication with a computer, comprising:

(a) an identification module for identifying changes in a master source file set on a master computer;

(b) a modification list for storing identified changes to the master source file set;

(c) a transmitter for transmitting the modification list to one or more agents in communication with the computer, the agent having access to a destination file system, the transmitter transmitting a signal to the agents separate from the notification of changes, the signal indicating that the agents are permitted to install the changes; and

(d) a receiver for receiving a response from the computer after the signal is sent, the response indicating that the destination file system received the identified changes.

25. (Previously presented): The content distributor of claim 24, wherein the transmitter is also for transmitting a copy of a changed file of the master source file set to the agent for installation on the destination file system.

26. (Original): The method of claim 7 wherein the file attribute is stored in a list of file attributes.

27. (New): The method of claim 1, further comprising waiting until a predetermined number or percentage of the agents determine that their respective web servers are able to receive the updated content before transmitting the changes to the agents.

28. (New) A method for replicating changes in a master source file set on destination file systems located on respective hosts, the destination file systems for access by respective ones of a plurality of web servers, the method comprising the steps of:

(a) identifying changes in the master source file set on a master computer;

(b) storing the identified changes in a modification list;

(c) transmitting the modification list to respective agents in communication with respective ones of the web servers, the agents having access to the respective destination file

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systems, each one of the destination file systems with its respective agent and web server running on the same respective host, thereby notifying the respective web servers that the master source file set has changed;

(d) waiting for a predetermined number or percentage of the web servers to be able to receive the updated content;

(e) if a predetermined number or percentage of the web servers are able to receive the updated content, then:

(1) transmitting the changes to the agents;

(2) transmitting a signal to the agents separate from the modification list, the signal indicating that the agents are permitted to install the changes in the respective web servers; and

(3) receiving a response from at least one web server after step (2) indicating that the identified changes are installed at the respective destination file system of that agent; and

(f) aborting transmission of the changes to the agents if fewer than the predetermined number or percentage of the web servers are able to receive the updated content.

29. (New): The method of claim 28, further comprising aborting installation of the changes if an insufficient number of agents are available to serve new content.